CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 78-84

WASTE DISCHARGE REQUIREMENTS FOR:

OAKLAND SCAVENGER COMPANY
DAVIS STREET CLASS II-2 SOLID WASTE DISPOSAL SITE
SAN LEANDRO, ALAMEDA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board) finds that:

1. On May 16, 1963 the Board adopted Resolution No. 464 prescribing waste discharge requirements for Oakland Scavenger Company (hereinafter called the discharger) for its Davis Street Sanitary Landfill.

2. The discharger currently disposes of Group 2 (41,000 tons/month) and Group 3 wastes at the 247 acre landfill which it owns and operates. The site is located at the west end of Davis Street in the City of San Leandro, Alameda County, as shown in Attachment A, which is made a part of this Order.

3. Operation of the site, which is close to capacity, began in 1942 and is to continue at least until December 31, 1978. Pending approval of the City of San Leandro, the continued operation of the site may be permitted until construction of a transfer station on the site is completed in April, 1980. The transfer station will occupy the eastern 53 acres of site, on the oldest portion of the fill where wastes were previously burned. The Western 194 acres has been proposed for use as an East Bay Regional Park.

4. The site is underlain by considerable thickness of impermeable alluvial clays with interbedded layers of sandy clays, clayey gravel and silt. There is no known usable groundwater immediately beneath the site.

5. The beneficial uses of San Francisco Bay are:

   a. Recreation
   b. Fish migration and habitat
   c. Habitat and resting for migratory birds and waterfowl
   d. Esthetic enjoyment
   e. Navigation

6. The area within 1000 feet of the site includes a general industrial tract, residential housing, a sewage treatment plant, and Oakland International Airport.

7. Subsequent to the modifications necessary to comply with this Order, this disposal site will meet the criteria contained in the California Administrative Code, Title 23, Chapter 3, Subchapter 15, for classification of the site as a Class II-2 disposal site suitable to receive Group 2 and 3 wastes.

8. The Board adopted a Water Quality Control Plan for the San Francisco Bay Basin in April 1975 and this Order implements the water quality objectives stated in that plan.

9. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.

10. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

11. This project involves the continued operation of a privately owned sanitary landfill, with minor alteration to the land. Consequently, this project will not have a significant effect on the environment based upon the exemption provided in Section 15101, Title 14, California Administrative Code.

IT IS HEREBY ORDERED that Oakland Scavenger Company and any other persons that shall own the land or operate this landfill shall comply with the following:

A. Waste Disposal Specifications

1. The disposal of wastes shall not create a nuisance as defined in Section 13050(m) of the California Water Code.

2. Group 2 wastes shall not be placed in or allowed to contact ponded water from any source whatsoever.

3. Wastes shall not be disposed of at any position where they can be carried from the disposal site and discharged into waters of the State.

4. Group 1 wastes shall not be deposited or stored at this site.

5. Sewage sludge or liquid wastes shall not be discharged with Group 2 and 3 wastes, unless approved in writing by the Executive Officer of this Board.

6. The discharger shall remove and relocate any wastes which are discharged at this site in violations of these requirements.

B. Leachate and Drainage Specifications

1. Leachate from Group 2 wastes and ponded water containing leachate or in contact with refuse shall not be discharged to waters of the State.

2. The disposal area shall be protected from any washout or erosion of wastes or covering material, and from inundation, which could occur as a result of floods having a predicted frequency of one in 100 years.

3. Lateral hydraulic continuity with surface water shall be prevented by the presence of a natural barrier of at least five feet in thickness and a permeability of 1×10^{-6} cm/sec or less or equivalent. If such a natural condition does not exist, an artificial barrier shall be constructed to meet the above specification.

4. The exterior surfaces of the disposal area shall be covered and graded to promote lateral runoff of precipitation and to prevent ponding.

5. The migration of methane gas from Group 2 waste shall be controlled as necessary to prevent creation of a nuisance.

C. Provisions

1. The discharger shall comply with all sections of this Order except B.2 and B.3 immediately upon adoption. The discharger shall comply with specification B.2 and B.3 according to the following time schedule:

Task	Completion Date	Report of Compliance Due
Determine status of compliance		November 1, 1978
If compliance is not achieved:		
Submit conceptual plan and time schedule		February 1, 1979
Progress report		May 1, 1979
Full Compliance		October 1, 1979

All plans and technical reports shall be prepared by a registered civil engineer or certified engineering geologist.

2. The discharger shall submit a site closure plan to the Board which shall conform to Resolution No. 77-7 established by the Regional Board. The site closure plan shall be prepared by or under the supervision of a registered engineer or a certified engineering geologist and shall be submitted no later than November 30, 1978.

3. The discharger shall file with this Board a report of any material change or proposed change in the character, location or quantity of this waste discharge. For the purpose of these requirements, this includes any proposed change in the boundaries, contours or ownership of the disposal area.

4. This Board considers the property owner to have a continuing responsibility for correcting any problems which may arise in the future as a result of this waste discharge or water applied to this property during subsequent use of the land for other purposes.

5. The discharger shall file with the Board technical reports on self-monitoring work performed according to the detailed specifications contained in any Monitoring and Reporting Program as directed by the Executive Officer.

6. The discharger shall permit the Regional Board:

   (a) Entry upon premises on which waste are located or in which any required records are kept,

(b) Access to copy any records required to be kept under terms and conditions of this Order,

(c) Inspection of monitoring equipment or records, and

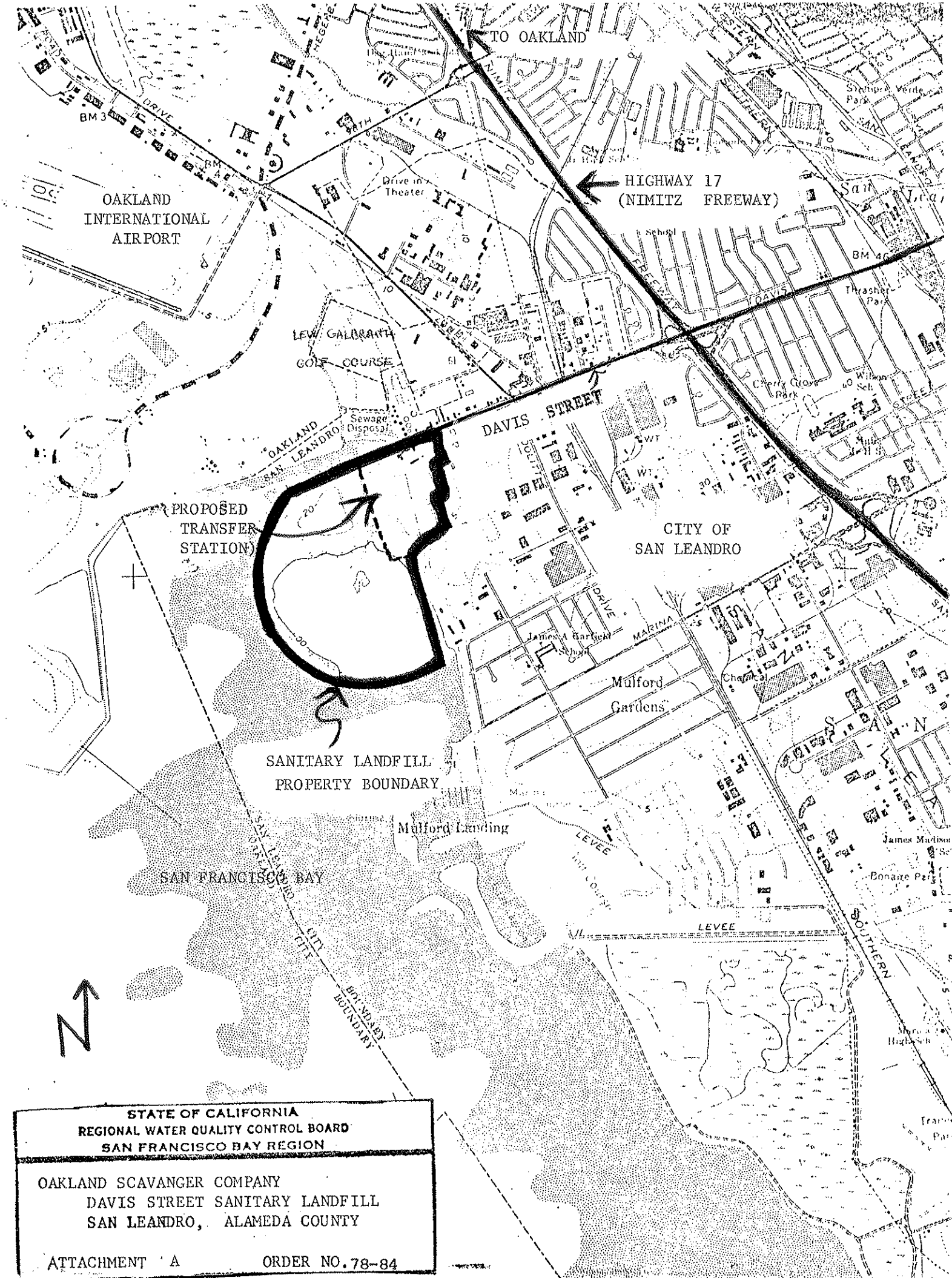
(d) Sampling of any discharge.

7. This Board's Resolution No. 464 is hereby rescinded.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on **October 17, 1978.**

FRED H. DIERKER
Executive Officer

Attachment:
Map



STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

OAKLAND SCAVANGER COMPANY
DAVIS STREET SANITARY LANDFILL
SAN LEANDRO, ALAMEDA COUNTY

ATTACHMENT A ORDER NO. 78-84

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

REVISED SELF-MONITORING PROGRAM

FOR

OAKLAND SCAVENGER COMPANY
FREMONT CLASS II-2 SOLID WASTE
DISPOSAL SITE, ALAMEDA COUNTY

PART A

A. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13268, 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16.

The principal purposes of a monitoring program by a waste discharger, also referred to as self-monitoring program, are: (1) to document compliance with waste discharge requirements and prohibitions established by this Regional Board, (2) to facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge, (3) to develop or assist in the development of effluent or other limitations, discharge prohibitions, national standards of performance, pretreatment and toxicity standards, and other standards, and (4) to prepare water and wastewater qualilty inventories.

B. SAMPLING AND ANALYTICAL METHODS

Sample collection, storage, and analyses shall be performed according to the latest edition of Standard Methods for the Examination of Water and Wastewater prepared and published jointly by the American Public Health Association, American Water Works Association, and Water Pollution Control Federation, or other methods approved and specified by the Executive Officer of this Regional Board, including the methods specified in attached APPENDIX E.

Water and waste analyses shall be performed by a laboratory approved for these analyses by the State Department of Health or a laboratory approved by the Executive Officer. The director of the laboratory whose name appears on the certification shall supervise all analytical work in his laboratory and shall sign all reports of such work submitted to the Regional Board.

All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy of measurements.

C. DEFINITION OF TERMS

1. Grab sample means a sample collected at any time.

2. Standard Observations

a. Receiving Water of San Francisco Bay

(1) Discoloration and turbidity: description of color, source, and size of affected area.

(2) Odor: presence or absence, characterization, source, and distance of travel.

(3) Evidence of beneficial water use: presence of water-associated wildlife, fishermen, and other recreational activities in the vicinity of the sampling stations.

(4) Hydrographic condition:

(a) Water and sampling depths.
(b) Tidal Conditions.

(5) Weather condition:

(a) Wind - direction and estimated velocity.
(b) Precipitation - total precipitation during the previous five days and on the day of observation.

b. Disposal Area and Periphery of Disposal Facilities

This applies to confined or unconfined solid wastes including high moisture content group 2 wastes.

(1) Evidence of leaching liquid from area of confinement and estimated size of affected area. (Show affected area on a sketch.)

(2) Odor: presence or absence, characterization, source, and distance of travel.

(3) Estimated number of waterfowl and other water-associated birds in the disposal area and vicinity.

(4) Cover material: Depth of inert material over the inactive areas.

(5) Evidence of erosion and/or day-lighted refuse.

D. SCHEDULE OF SAMPLING, ANALYSES, AND OBSERVATIONS

The discharger is required to perform observations, sampling, and analyses according to the schedule in Part B with the following conditions:

E. RECORDS TO BE MAINTAINED

1. Written records shall be maintained at the landfill site or office and shall be retained for a minimum of 3 years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board. Such records shall show the following for each sample:

   a. Identity of sampling and observation stations by number.

   b. Date and time of sampling and/or observations.

   c. Date and time that analyses are started and completed, and name of personnel performing the analyses.

   d. Complete procedure used, including method of preserving sample and identity and volumes of reagents used. A reference to specific section of Standard Methods is satisfactory.

   e. Calculations of results.

   f. Results of analyses and/or observations.

F. REPORTS TO BE FILED WITH THE REGIONAL BOARD

1. Written reports shall be filed for each calendar month (unless specified otherwise in Part B) by the fifteenth day of the following month. In addition, an annual report shall be filed as indicated in F-1-f. The reports shall be comprised of the following:

   a. Letter of Transmittal:

      A letter transmitting self-monitoring reports should accompany each report. Such a letter shall include a discussion of requirement violations found during the past month and actions taken or planned for correcting violations, such as plant operation modifications and/or plant facilities expansion. If the discharger has previously submitted a detailed time schedule for correcting requirement violations, a reference to the correspondence transmitting such schedule will be satisfactory. The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true and correct.

      Monitoring reports shall be signed as follows:

      (1) In the case of corporations, by a principal executive officer at the level of vice-president or his duly authorized representative if such representative is responsible for the overall operation of the facility from which the discharge originates,

(2) In the case of a partnership, by a general partner, or

(3) In the case of a sole proprietorship, by the proprietor,

(4) In the case of a municipal, State, or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

b. Compliance Evaluation Summary

Each report shall be accompanied by a compliance evaluation summary sheet prepared by the discharger. The report format will be specified by the Regional Board.

c. Map or Aerial Photograph

A map or aerial photograph shall accompany the report showing sampling and observation station locations.

d. Results of Analyses and Observations

Tabulations of the results from each required analysis specified in Part B by date, time, type of sample, and station, signed by the laboratory director. The report format will be specified by the Regional Board.

e. List of Approved Analyses

(1) Listing of analyses for which the discharger is approved by the State Department of Health.

(2) List of analyses performed for the discharger by another approved laboratory (and copies of reports signed by the laboratory director of that laboratory shall also be submitted as part of the report).

f. Annual Reporting

By January 30 of each year, the discharger shall submit an annual report to the Regional Board covering the previous calendar year. The report shall contain:

1. Tabular and graphical summaries of the monitoring data obtained during the previous year.

2. Comprehensive discussion of the compliance record and the corrective actions taken or planned which may be needed to bring the discharger into full compliance with the waste discharge requirements.

3. A map showing the area in which filling has been completed during prior calendar year.

4. Summary of the groundwater analyses indicating any change in the quality of the groundwater.

PART B

I. DESCRIPTION OF SAMPLING STATIONS & SCHEDULE OF SAMPLING, ANALYSES & OBSERVATIONS

A. WASTE MONITORING

1. Monthly, record the total volume and weight of a refuse (in cubic yards and tons) deposited on the site during the month, and the daily average. Report quarterly.

2. Monthly, record the volume of fill completed, in cubic yards, showing the location(s) and dimensions on a sketch or a map. Report quarterly.

The monthly records shall be maintained at the landfill office. The weight of the refuse shall be estimated and reported quarterly.

B. ON SITE OBSERVATION

Station	Description
S-1 thru S-'n'	Observation stations located on any past or presently active portion of the waste site at grid squares delineated by a 500 foot grid network.
P-1 thru P-'n'	These stations shall be located at equidistant intervals not exceeding 1000 feet around the perimeter of the active and once active portion of the disposal site excluding the area described by the 'S' stations.

Station	Frequency of Observation	Observations
All S Stations	Weekly throughout the year	1. Evidence of ponded water at any point on the disposal site. 2. Evidence of refuse not confined within disposal site or cell. 3. Evidence of erosion and/or day-lighted refuse. 4. Evidence of waste in contact with pools of surface water.

Station	Frequency of Observation	Observations
All P Stations	Weekly throughout the year	1. Evidence of refuse not confined within a cell or parcell. 2. Evidence of odors presence or absence, characteristics, intensity source and distance of travel. 3. Evidence of leachate or water entering or leaving the disposal site, and estimated size of affected area.

All "P" and "S" stations must be monitored according to the above described frequency and report quarterly.

C. SEEPAGE AND/OR LEACHATE MONITORING

Station	Description
L-1 thru L-'n'	At a point at which each discharge occurs from the disposal area. Include a map indicating locations of discharge(s).

Station	Type of Sample and Frequency	Analyses	Units
All L Stations	Daily, grab sample at each occurrence	COD	mg/l
		D.O.	mg/l
		Dissolved sulfide	mg/l
		Odors	description
		Color	description
		pH	electrometric units
		Conductivity	micromhos/cm

A report shall be made by telephone of any seepage or leachate leaving the disposal area immediately after occurrence. A written report shall be filed with this Board within five days and shall contain the following information: (1) Map showing location(s) of discharge (2) Approximate flow rate (3) Nature of effect (i.e. discoloration of receiving water, size of affected area and (4) Corrective measures undertaken.

D. RECEIVING WATER OF SAN FRANCISCO BAY AND ADJACENT DRAINAGE DITCH

Station	Description
CU-1 thru CU-"n"	Located in the receiving water, 200 feet upstream from point of discharge.
CD-1 thru CD-"n"	Located in the receiving water, 200 feet downstream from point of discharge.

Station	Types of Sample and Frequency	Analyses	Unit
All C Stations	Daily, during discharge coincident with sampling at "L" stations	D. O.	mg/l
		Total Sulfide	mg/l
		Dissolved Sulfide	mg/l
		pH	electrometric units
		Conductivity	micromhos/cm
		Odors	description
		Color	description

E. GROUNDWATER AND PEIZOMETRIC GRADIENT MONITORING

Station	Description
G-1 thru G-"n"	These groundwater monitoring wells shall be located on the middle of the perimeter levee at equidistant intervals of 1000 feet around the perimeter of the disposal area. These wells shall be as deep as necessary to determine the level of subsurface water nearest to the ground surface.
GR-1 thru GR-"n"	Risers located in the filled and partially filled portions of the refuse site at a 1000 foot grid system. The risers depth shall be the bottom of the disposal site.

A well drilling log shall be submitted for each sampling well established per this monitoring program.

Station	Type of Sample and Frequency	Analyses	Units
All "GR" Stations	Observed quarterly throughout the year.	Leachate level	feet
All "G" Stations	Grab sample quarterly throughout the year	water level	feet
		Color	visual
		Chloride	mg/l
		COD	mg/l
		TDS	mg/l
		Nitrate Nitrogen (as N)	mg/l

Analyses	Units
Total Kjeldahl Nitrogen (as N)	mg/l
Conductivity	micromhos/cm
pH	electrometric

All "GR" and "G" stations shall be reviewed after one year of analyses.

All "G" wells shall be constructed in accordance with the Alameda County well construction standards. A well drilling log shall be submitted for each sampling well established no later than March 1, 1978. The wells shall be perforated and have a minimum diameter of six (6) inches.

Prior to taking any grab samples of the groundwater wells, the wells water must be pumped a minimum of two to five minutes.

F. MISCELLANEOUS REPORTING

1. Prior to the placement of waste material in any new portion of the active area, the discharger shall submit documentation of the presence of a material clay barrier of at least 5 feet in thickness and a permeability of 10^{-6} cm/sec or less on the bottom and sides of each disposal area. If such a natural condition does not exist, the discharger shall submit documentation that an artificial barrier meeting the above specifications has been constructed.

2. Submit documentation of all actions taken to observe, minimize and/or control the migration of methane gas from Group II waste necessary to prevent creation of a nuisance. This documentation shall be submitted no later than May 15, 1978.

I, Fred H. Dierker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in the Regional Board Resolution No. 78-84.

2. Has been ordered in writing by the Executive Officer in March 1967 and became effective on April 17, 1977, and was revised to be implemented on the date ordered as shown below.

3. May be reviewed at any time subsequent to the effective date upon written notice from either the Executive Officer or the discharger, and will be revised upon written agreement of the Executive Officer and the discharger.

FRED H. DIERKER
Executive Officer

DATE ORDERED October 17, 1978